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7 & RADY	Application Number	on of information unless it displays a valid OMI 10/016,993	3 control number.	
TRANSMITTAL FORM	Filing Date	ng Date December 13, 2001		
	First Named Inventor	WILES		
(to be used for all correspondence after initial filing)	Art Unit Examiner Name	1632		
		Michael C. Wilson		
Total Number of Pages in This Submission	Attorney Docket Number	R-948		
ENCL	OSURES (Check all that	apply)		
Fee Attached Amendment/Reply After Final Affidavits/declaration(s)	Orawing(s) icensing-related Papers Petition Petition to Convert to a Provisional Application Ower of Attorney, Revocation Phange of Correspondence Addre	Other Enclosure(s) (please	(TC) to Board nces to TC ly Brief)	
	equest for Refund D, Number of CD(s) s	Identify below):	CEIVED	
Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53		AUG	i 1 9 2003 NTER 1600/2900	
SIGNATURE OF	APPLICANT, ATTORNE	Y, OR AGENT		
Firm or Individual Signature Date Kelly L. Quast, Reg. No. 52,141 Kelly L. Quast, Reg. No. 52,141 August 13, 2003	TE OF TRANSMISSION/I			
I hereby certify that this correspondence is being facsimile transr first class mail in an envelope addressed to: Commissioner for P.	mitted to the LISDTO as described at		nt postage as	
Typed or printed Don Mixon				
Signature Dm Mas		Date August 13, 20	03	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael V. WILES et al.

Group Art Unit:

Examiner: Wilson, Michael C.

1632

Serial No.:

10/016,993

Customer No.

26619

Filed:

December 13, 2001

Docket/Order No.

Title:

Transgenic Mice Containing Alpha-

Endosulfine Gene Disruptions

Docker Order No.

R-948

Date:

August 13, 2003

RESPONSE TO RESTRICTION REQUIREMENT

RECEIVED

Commissioner for Patents Mail Stop Non-Fee Amendments P.O. Box 1450 Alexandria, VA 22313-1450

TECH CENTER 1600/2900

Dear Sir:

In response to the Office Action mailed July 16, 2003 concerning the Examiner's restriction to the claims in connection with the above-referenced application, Applicants elect without traverse Group II (claims 5-8, 10 and 14-18), drawn to a cell having a disruption in an alpha-endosulfine gene, and a transgenic animal having a disruption in an alpha-endosulfine gene.

Respectfully submitted,

Date: 8/13/03

Kelly forest

Kelly L. Quast, Reg. No. 52,141 Deltagen, Inc. 700 Bay Road Redwood City, CA 94063

(650) 569-5100

Enclosures

PE In re Application Serial No. 10/016,993 – WILES et al.

Our Docket No.: R-948

CERTIFICATE OF MAILING UNDER 37 CFR 1.8

I hereby certify that this correspondence and its listed enclosures is being deposited with the United States Postal Service as First Class Mail, postage paid, in an envelope addressed to: Commissioner for Patents, Alexandria, VA, Mail Stop Non-Fee Amendment/OIPE on August 13, 2003.

Name: Don Mixor

Signed: Umald

Date: 8/13/03



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,993 12/13/2001		Michael V. Wiles	R-948	4978
7590 07/16/2003 DELTAGEN, INC. 740 Bay Road Redwood City, CA 94063	AUG 1 5 2003 4	EXAMINER WILSON, MICHAEL C		
	THE SECOND SECOND	ART UNIT	PAPER NUMBER	
		TRADEMOS!	1632	
			DATE MAILED: 07/16/2003	3

Please find below and/or attached an Office communication concerning this application or proceeding.

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BY:

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AUG 1 9 2003

TECH CENTER 1600/2900

J		OIPE VOL				
		- 2003 v	Application No.		Applicant(s)	
		AUG 1 5 2003	10/016,993		WILES ET AL.	
	Office Action Sum	mary	Examiner		Art Unit	
		A TRAPES	Michael C. Wilse		1632	
	The MAILING DATE of this	communication app	ears on the cove	r sheet with the co	orrespondence ad	ldress
Period for	· -	FRIOR FOR REDI	VIC CET TO EV	DIDE 1 MONTH(S) FROM	
THE M - Extens after S - If the p - If NO p - Failure - Any re	PRTENED STATUTORY P IAILING DATE OF THIS C sions of time may be available under t IX (6) MONTHS from the mailing date beriod for reply specified above is less period for reply is specified above, the e to reply within the set or extended poply received by the Office later than the patent term adjustment. See 37 CFI	OMMUNICATION. the provisions of 37 CFR 1.1 of this communication. than thirty (30) days, a repl maximum statutory period period for reply will, by statute tree months after the mailing	36(a). In no event, how y within the statutory m will apply and will expire	vever, may a reply be tim inimum of thirty (30) days s SIX (6) MONTHS from to to become ABANDONEE	ely filed s will be considered time the mailing date of this of O (35 U.S.C. § 133).	ly. communication.
1)	Responsive to communic	ation(s) filed on	·			
2a) <u></u>	This action is FINAL.	2b) <u></u> ⊤t	nis action is non-	final.		
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•	The drawing(s) filed on			cted to by the Exa	miner.	
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Priority u	ınder 35 U.S.C. §§ 119 ar	ıd 120				
13)	Acknowledgment is made	of a claim for foreig	n priority under	35 U.S.C. § 119(a)-(d) or (f).	·
a)	☐ All b) ☐ Some * c) ☐	None of:				
	1. Certified copies of t	he priority documer	nts have been re	ceived.		
	2. Certified copies of t	he priority documer	nts have been re	ceived in Applicat	tion No	
* \$	3.☐ Copies of the certife application from See the attached detailed €	n the International B	ureau (PCT Rul	e 17.2(a)).		al Stage
14) [A	Acknowledgment is made o	of a claim for domes	tic priority unde	r 35 U.S.C. § 119	(e) (to a provisior	nal application).
a 15)□ /	i) The translation of the Acknowledgment is made	foreign language p of a claim for dome	rovisional applic stic priority unde	ation has been re r 35 U.S.C. §§ 12	ceived. 30 and/or 121.	
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1) Notic 2) Notic 3) Infor	ce of References Cited (PTO-892 ce of Draftsperson's Patent Draw mation Disclosure Statement(s) (ing Review (PTO-948)	4) 5) 	Notice of Informa	ry (PTO-413) Paper I Patent Application (
U.S. Patent and PTO-326 (Re	rademark Office ev. 04-01)	Office /	Action Summary		Part of Paper No.	7

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DETAILED ACTION

Claims 1-20 are pending and under consideration.

The computer readable format of the sequence listing filed had errors, but was entered by STIC. The disk had non-ASCII "garbage" at the beginning/end of files that were deleted by STIC.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-4, drawn to a construct having a first and second polynucleotide sequence homologous to an alpha-endosulfine gene and a selectable marker, classified in class 435, subclass 320.1.
- II. Claims 5-8, 10 and 14-18, drawn to a cell having a disruption in an alphaendosulfine gene, classified in class 435, subclass 325, and transgenic animals having a disruption in an alphaendosulfine gene, classified in class 800, subclass 8,
- III. Claim 11, drawn to a method of identifying a compound using a transgenic animal having a disruption in an alpha-endosulfine gene, classified in class 800, subclass 3.
- IV. Claim 12, drawn to a method identifying a compound using a cell having a disruption in an alpha-endosulfine gene, classified in various classes and subclasses.

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- V. Claims 13, drawn to agents that modulate expression or function of alphaendosulfine protein, classified in numerous classes and subclasses.
- VI. Claim 19, drawn to a method of identifying compounds using alphaendosulfine protein, classified in class 530, subclass 350.
- VII. Claim 20, drawn to a method of identifying compounds using cells transfected with DNA encoding alpha-endosulfine protein or encoding a reporter gene operably linked to an alpha-endosulfine promoter, classified in class 435, subclass 325.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not used together. The targeting construct does not have a disruption in the alpha-endosulfine gene while the cells and animals of Invention II require a disruption in the alpha-endosulfine gene.

Inventions I and III or IV are patentably distinct because the construct can be used to encode alpha-endosulfine protein while the claims of Invention III or IV must have a disruption in the alpha-endosulfine gene. DNA encoding alpha-endosulfine has a different structure and function than cells or transgenics having DNA with a disruption in the alpha-endosulfine gene. The burden required to search DNA encoding alpha-endosulfine and disrupting an alpha-endosulfine gene together would be undue.

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Inventions I and V are unrelated. The protocols and reagents required for targeting constructs are materially distinct and separate from those required for agents that modulate expression or function of an alpha-endosulfine protein. The agents do not require the targeting construct and vice versa.

Inventions I and VI or VII are patentably distinct because the construct can be used to disrupt the alpha-endosulfine gene while the methods of Inventions VI or VII requires the alpha-endosulfine protein. The protocols and reagents required for targeting constructs are materially distinct and separate from those required for protein assays. The targeting construct does not require the methods and the methods do not require the targeting construct.

Inventions II and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the method can be performed using cells or transgenics. The burden required to search an in vitro method with an in vivo method would be undue.

Inventions II and IV are related as product (cells) and process of use (method of using cells in any assay). In the instant case the method can be performed using cells or transgenics. The burden required to search an in vitro method with an in vivo method would be undue.

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Inventions II and V are patentably distinct because, for example, transgenics are used as in vivo models while the agents are used to treat disease. The protocols and reagents required for cells or transgenics having a disruption of an alpha-endosulfine gene are materially distinct and separate from those required for agents that modulate expression or function of an alpha-endosulfine protein. The cells/transgenics do not require the agents and vice versa.

Inventions II and VI or VII are patentably distinct because the cells or transgenics of Group II require a disruption of alpha-endosulfine proteins while the methods of Groups VI and VII require using the alpha-endosulfine protein. The protocols and reagents required for cells/transgenic having a disruption in a protein are materially distinct and separate from those required for using the protein to identify compounds. The cells/transgenics do not require the protein used in the methods of Group VI and VII, and the methods of Groups VI and VII do not require the cells/transgenics.

Inventions III and IV are patentably distinct because the method of Group III requires a transgenic while the method of Group IV requires cells. The protocols and reagents required for testing compounds *in vivo* are materially distinct and separate than those required to test compounds *in vitro*. The method of Group III does not require the method of Group IV and vice versa. The burden required to search an in vitro method with an in vivo method would be undue.

Inventions III and V are patentably distinct because the method is used to identify compounds while the agents are used to treat disease. The protocols and reagents required for using transgenics having a disruption of an alpha-endosulfine gene are

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materially distinct and separate from those required for agents that modulate expression or function of alpha-endosulfine protein. The method does not require the agents and vice versa.

Inventions III and VI or VII are patentably distinct because the transgenics of Group III require a disruption of alpha-endosulfine proteins while the methods of Group VI and VII require using the alpha-endosulfine protein. The protocols and reagents required for using a transgenic having a disruption in a protein are materially distinct and separate from those required for using the protein to identify compounds. The methods do not require the protein and the methods do not require using transgenics.

Inventions IV and V are patentably distinct because the method is used to identify compounds while the agents are used to treat disease. The protocols and reagents required for using cells having a disruption of an alpha-endosulfine gene are materially distinct and separate from those required for agents that modify expression or function of alpha-endosulfine protein. The method does not require the agents and vice versa.

Inventions IV and VI or VII are patentably distinct because the cells used in the method of Group IV require a disruption of alpha-endosulfine proteins while the methods of Group VI requires the alpha-endosulfine protein and the method of Group VII requires the cells express an alpha-endosulfine protein. The protocols and reagents required for using cells having a disruption in a protein are materially distinct and separate from those required for using the protein or cells expressing the protein to

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identify compounds. The method of Group IV does not require the methods of Group VI or VII and the methods of Group VI or VII do not require the method of Group IV.

Inventions V and VI or VII are patentably distinct because the agent is used to modify the expression or function of alpha-endosulfine protein while the methods are used to identify compounds and requires the alpha-endosulfine protein. The protocols and reagents required for agents are materially distinct and separate from those required for using the protein to identify compounds. The agent does not require the method and the method does not require the agent.

Inventions VI and VII are patentably distinct because the method of Group VI requires protein while the method of Group VII requires transfected cells. The protocols and reagents for making and using protein and transfected cells are materially distinct and separate. The method of Group VI does not require the method of Group VII and the method of Group VII does not require the method of Group VI.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I-IX is separate, restriction for examination purposes as indicated is proper.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Wilson who can normally be reached on Monday through Friday from 9:00 am to 5:30 pm at (703) 305-0120.

Questions of formal matters can be directed to the patent analyst, Dianiece Jacobs, who can normally be reached on Monday through Friday from 9:00 am to 5:30 pm at (703) 305-3388.

Questions of a general nature relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1235.

If attempts to reach the examiner, patent analyst or Group receptionist are unsuccessful, the examiner's supervisor, Deborah Reynolds, can be reached on (703) 305-4051.

The official fax number for this Group is (703) 308-4242.

Michael C. Wilson

MICHAEL WILSON PRIMARY EXAMINER